In order to use this machine, you need to have been checked out and approved by your PI, research educator, or instructor.

The Beckman Centrifuge is the large, downstairs centrifuge in PAI 1.03 (Ice Room).

Fill out centrifuge sign-in sheet before using!



Use the larger rotor (JA-10) if you are spinning down 500ml bottles. Use the smaller rotor (JA-17) if you are spinning down 50mL conical tubes. This one is already in the centrifuge.

Careful! It’s heavy!

The large rotor is stored in the refrigerator next to PAI 1.03



500 mL bottles are shown in the left.   
Verify sealing caps are on in addition to main cap!

50 mL bottles are shown in the right.





Pre-cool the centrifuge for 20 minutes before you start spinning. Take out the small rotor and place it in the refrigerator if you are using the large rotor. You may need to turn the blue cap before taking it out. Place the large rotor on the rod if you are using it.

When screwing on the lid, verify rubber O-ring is in place.



Turn on the centrifuge. Close the lid- you will hear a "snap". Turn the temperature knob to 4° C. The green line should be at 4°C.



Before loading your samples, make sure each sample is within 1 gram of each other. If necessary, use nanopure water to add mass to your sample.



Load your samples. If door does not open, turn off centrifuge and restart. Make sure your samples are equally balanced. Screw the lid back on the rotor.

Shown to the right are two proper ways of balancing. The third way is incorrect.







Use the table to find the RPM.

IMPORTANT! The top row is the rotor: use JA-17 for the smaller rotor, use JA-10 for the bigger rotor. Find your desired xG by going down the column. Go to the right to find your RPM.



Set your time with the knob. Close the lid. Hit start to begin. Wait for the RPM to reach maximum before leaving.



When finished spinning, turn off the centrifuge with the lid still open. This allows the lid to stay cracked open, allowing the cold air to vent.

If the cold air does not vent, the negative pressure inside will not let you open it again. Clean rotors and dry. Swap rotors. Leave lid open. Turn off centrifuge.

